Reservoir Accessories

Many components from HYDAC are used on reservoirs, but no reservoir is complete with HYDAC Reservoir Accessories! Breathers play an important role in keeping particulate and moisture out of your system. Fluid Level Indicators provide monitoring, while suction strainers provide that last insurance large objects don’t get sucked into your pump.

For competitor crossovers and/or technical information contact the Accessories division at:

**Accessories.ATS@HYDAC-NA.COM**

For material compatibility, HYDAC maintains a reference list intended to be a general guideline only and can be found in the online catalog which can be accessed via the QR code below and at the bottom of each page.

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
OVERVIEW OF RESERVOIR ACCESSORIES

Particulate Breathers

- BF 10
- ELF 30
- BF 5
- BF 8

Desiccant Breathers

- BDE
- BDLP

Suction Strainers

- SFE
- HTMS
- MSS

Fluid Level Guages

- FSA
- FSK

Other

- 1620 Test Points
- Micro Bore Flex hose
- Gauge Isolator
- Split Flange
- Gauge

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Overview of Reservoir Accessories

The reservoir of a hydraulic system can be a significant source of contamination while also serving as an ideal location for correcting adverse fluid conditions. The application of proper HYDAC reservoir accessories will allow for the monitoring and control of oil cleanliness, temperature, and level.

Breathers are commonly overlooked, or regarded as a commodity, and selected based solely upon price. This mistake can cause system inefficiency and component failure, resulting in lost production and costly repairs, especially when harsh environmental conditions exist. Using high quality HYDAC breathers and following the proper maintenance intervals will effectively combat the ingestion of airborne contamination and moisture, thus, increasing the efficiency and reliability of the system.

The addition of new oil to a reservoir is yet another opportunity for contaminant to enter the system. Sometimes large contaminants, which will undoubtedly cause catastrophic damage to the pump. HYDAC filler breathers will ensure that large contaminants do not enter the tank during filling, and suction strainers will keep any large contaminant that do exist in the reservoir from entering the supply line. Fluid level must also be monitored to avoid starving the pump. HYDAC offers fluid level indicators (sometimes called sight gauges) which allow for the oil level to be viewed outside of the tank. These indicators are also available with electric switches which can be used to trigger alarms. Thermometers and thermal probes are additional options in HYDAC’s line of fluid level indicators.

Remote Filter
Level & Temperature Sensor*
In-Tank Return Line Filter*
Filler Breather
Offline Filter*
Weld Flange
Suction Strainer
Fluid Level Indicator

*Products not included in this catalog for reservoirs can be found through other HYDAC divisions

For additional information on these products please refer to:

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
**RESERVOIR ACCESSORIES**

**Particulate Breathers (Mobile)**

### BF 10 Series

**Specifications**
- Maximum Flow Rate 13 scfm / 100 gpm at 0.04 bar
- Durable synthetic material (PA6)
- Filtration Rating 3 µm
- Buna N O-Ring
- Optional dipstick (contact factory)
- Optional customer logo (contact factory)
- Optional pressurized breather with relief valve
- Optional anti-splash device
- -22° to 212°F (-30° to 100°C)
- Phenolic resin impregnated filter element

### BF 30 Series

**Specifications**
- Maximum flow rate - 31 scfm / 230 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- Buna N O-Ring
- Threaded breather connection
- Optional dipstick (contact factory)
- Optional customer logo (contact factory)
- Optional pressurized breather with relief valve
- Optional anti-splash device
- -22° to 212°F (-30° to 100°C)
- Phenolic resin impregnated filter element

### ELF...10 Series

**Filler Breathers**

### ELF 30 Series

**Filler Breathers**

The full technical overview for breathers can be found in our catalog pages.

Breather size is selected by calculating the rate of change of fluid level in the tank. To select your BF or ELF breather, take this flow rate to our catalog pages for the type of breather you need.

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
Particulate Breathers (Industrial)

BL Series

Specifications
- Maximum flow rate: 110 scfm/850 gpm
- 3 or 10 micron
- Steel Canister
- 10 micron Betamicron®
- Replaceable element

BF 5 Series

Specifications
- Maximum flow rate: 105 scfm/790 gpm at 0.01 bar
- Steel housing
- 3 micron
- Replaceable element
- Phenolic resin impregnated filter element

BF 7 Series

Specifications
- Maximum flow rate: 63 scfm/475 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- Replaceable element Phenolic resin impregnated paper
- Threaded breather cap connection
- Differential gauge (optional)
- -22° to 212°F (-30° to 100°C)

BF 8 Series

Specifications
- Maximum flow rate: 352 scfm/2640 gpm at 0.01 bar
- Steel housing
- 1 micron Air Filter
- Replaceable element
- 4 bolt DN 93 flange

BF 9 Series

Specifications
- Maximum flow rate: 528 scfm/3960 gpm at 0.01 bar
- Aluminum housing
- Replaceable element
- 2 µm Air Filter
- 8 bolt DN 125 flange

BF 52 Series

Specifications
- Maximum flow rate: 176 scfm/1320 gpm at 0.01 bar
- Steel housing
- 3 micron
- Replaceable element (uses 2 of the standard size 5 elements)
- Phenolic resin impregnated paper
- G 2 1/2” female threaded connection

BF 72 Series

Specifications
- Maximum flow rate: 74 scfm/555 gpm at 0.04 bar
- Durable synthetic material (PA6)
- 3 micron
- Replaceable element
- Phenolic resin impregnated paper
- Removable lid to access fill port
- Threaded breather cap connection
- Differential gauge (optional)
- -22° to 212°F (-30° to 100°C)

Breather size is selected by calculating the rate of change of fluid level in the tank. To select your BL or BF breather, take this flow rate to our catalog pages for the type of breather you need.

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Reservoir Accessories

Desiccant Breathers
BDE Series
Drymicron

Description
Desiccant Breather for removing moisture from air entering gearboxes, reservoirs, fuel tanks, etc.

Features
- 2-Stage Adsorbent Filling
- Distribution of Flow by special design of the inner components
- Star-pleated air filter element (2 µm) reduces/prevents dirt and dust ingress into tank
- Integrated anti-splash tool to protect the absorbent from oil contamination
- Replacement cartridges
- Color Indication: When maximum adsorption is reached, the silica gel turns from purple to orange
- Optional visual indicator

Replacement Cartridges

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model Code</th>
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<tbody>
<tr>
<td>1300418</td>
<td>BDE 1000 X 2 UBM 0.0/CARTRIDGE</td>
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<tr>
<td>1299655</td>
<td>BDE 1000 X 2 W 0.0/CARTRIDGE</td>
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<td>1309981</td>
<td>BDE 200 X 2 UBM 0.0/CARTRIDGE</td>
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<tr>
<td>1299653</td>
<td>BDE 200 X 2 W 0.0/CARTRIDGE</td>
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<tr>
<td>1308314</td>
<td>BDE 400 X 2 UBM 0.0/CARTRIDGE</td>
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<tr>
<td>1299654</td>
<td>BDE 400 X 2 W 0.0/CARTRIDGE</td>
</tr>
</tbody>
</table>

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.

For technical data and ordering information on desiccant breathers, please visit our catalog pages.
BD Series*

085 N 2 W 2.0

Specifications
- Durable ABS plastic and impact-modified Plexiglas
- 2 micron, 100% efficiency
- Airflow up to 100 scfm (750 gpm)

BDM Series*

085 N 2 W 2.0

Specifications
- 2 micron Filter
- ¾” NPT male fitting
- All models are rated for 5 SCFM at 1 psig
- Optional Check valves

BDLP Serie*

N 2 W 1.0

Specifications
- 2 Micron Filter
- 0.280 lb Water adsorption capacity
- Standard NPT & BSPP 1” male fittings available

*These breathers are fully disposable. Once color changes from red to yellow cartridge must be replaced for optimum performance.

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
**Suction Strainers**

**SFE Series**
In-Tank Suction Strainer Element

**MSS Series**
Magnetic Suction Separators

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**HTMS Series**
Tank Mounted Suction Strainer Elements
SAE O-Ring

**Hose Barb**

**Weld Flange (SAE)**

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**NPT**

**Male NPT Ports**

For technical data, ordering info, and options, please visit our catalog pages.

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
FSK Series
Fluid Level Indicator with Electric Level Switch

FSA Series
Fluid Level Indicator

Technical Data

<table>
<thead>
<tr>
<th>Material</th>
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<tbody>
<tr>
<td>Housing</td>
<td>Anodized Aluminum or ABS Plastic</td>
<td></td>
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<tr>
<td>Sight Tube</td>
<td>Polyamide or Glass</td>
<td></td>
</tr>
<tr>
<td>Seals</td>
<td>Fluorocarbon, NBR</td>
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<tr>
<td>Nuts / Bolts</td>
<td>Steel, Zinc plated</td>
<td></td>
</tr>
</tbody>
</table>

Fluid Temperature

-4°F to 176°F (-20°C to 80°C)

Maximum Pressure

14.5 PSI (1 BAR)

Thermometer Range

Type T (FSA only) 14°F to 176°F (-10°C to 80°C)

Type FT100 32°F to 212°F (0°C to 100°C)

Type FT200 32°F to 212°F (0°C to 100°C)

Type FT300 32°F to 212°F (0°C to 100°C)

Bolting Torque

Max. 8 LB-FT+1 (10 Nm +2) see installation instructions below

For more in-depth technical data, ordering info, and options, please visit our catalog pages.

Fluid Level Indicators are compatible with water and mineral oils. Exposure to cleaners and rust inhibitors can cause cracking of the tube and leaks. Contact HYDAC if your application could be exposed to cleaners or rust inhibitors.
RESERVOIR ACCESSORIES

Test Points
1620 Series
Test Points & Micro Bore Flex Hoses

1215 Series
Test Points (M12 x 1.5 Threads)

Information regarding test points, hoses, and test kits can be found in our catalog pages.

Gauge Isolators
MA Series
Single Gauge Isolator

MSL Series
Zero Leakage Multi-Station Gauge Isolators with Integral Gauge

MS Series
Multi-Station Gauge Isolators

Information regarding test gauges and split flanges can be found in our catalog pages.

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
Global Replacement
The offerings of HYDAC Technology Corp, the USA branch of HYDAC Accessories GmbH, does not have an identical line of offerings and as such maintains a separate catalog housed at www.hydac-na.com. However, as a global company, we also provide our commitment to our US based customers to replace any items offered by our European counterparts that is installed on a machine or piece of equipment. If you need to replace one of these items, contact our Advanced Technical Support Team today!
MARKET OVERVIEW

HYDAC Accessories has some key focus markets. While not limited to these, we do have unique value propositions for each of the key markets below.
Contact your HYDAC Accessories Product Manager today to learn more about the value HYDAC can bring you!

Oil and Gas
- Stainless Steel High Pressure Ball Valves
- KHB3H – Welded Repairable High Pressure Ball Valves
- Stainless Steel DIN 3015 Clamps
- API Rated Fluid Level Indicators

Wind Industry
- HRFLEX Clamps
- Desiccant Breathers for Gear Box’s

Machine Tool
- CX Valves

General Industrial
- CX Valves

Rail
- HRGKSM for mounting Air Reservoirs
- DIN 3015 Clamps to NFPA 130
- High Pressure Ball Valves

Truck – On Highway
- Band Straps for mounting Air Reservoirs

Mobile – Off Highway
- Roll Over Breathers
- Suction Strainers
- Band Straps for Mounting Reservoirs

Future Mobility
- Band Straps for mounting batteries
- Breathers for Electrical Enclosures